

**ABSTRACT**

A resolver circuit including a signal generation circuit, a bridge tied load amplifier, a resolver, and a resolver processing circuit is provided. The signal generation circuit is configured to generate an excitation signal for driving the resolver. The bridge tied load amplifier, having an input in electrical communication with the signal generation circuit, is configured to amplify the excitation signal. The resolver has an excitation winding and an output winding, with the excitation winding being in electrical communication with the bridge tied load amplifier. The resolver processing circuit is electrical communication with the output winding of the resolver to determine the angle of rotor of the resolver.